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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------------------|----------------------|---------------------|------------------|
| 10/579,252 | 01/24/2007 | Carlo Paletto | Q94721 | 7841 |
| 23373 SUGHRUE MI | 7590 12/07/2007 ON, PLLC | EXAMINER | | |
| 2100 PENNSYLVÁNIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 | | | WOLFE, DEBRA M | |
| | | | ART UNIT | PAPER NUMBER |
| WHOIIINGTO | 711, DO 20051 | | 3725 | |
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| | | | 12/07/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | |
|---|--|---|--|--|
| | 10/579,252 | PALETTO, CARLO | | |
| Office Action Summary | Examiner | Art Unit | | |
| | Debra M. Wolfe | 3725 | | |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with the c | orrespondence address | | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133). | | |
| Status | | | | |
| 1) ☐ Responsive to communication(s) filed on 12 № 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowards closed in accordance with the practice under £ | s action is non-final. nce except for formal matters, pro- | | | |
| Disposition of Claims | | | | |
| 4) Claim(s) 21-35 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 21-24 and 31-33 is/are rejected. 7) Claim(s) 25-30,34 and 35 is/are objected to. 8) Claim(s) are subject to restriction and/or | wn from consideration. | | | |
| Application Papers | | | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any objection to the Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10. | cepted or b) objected to by the drawing(s) be held in abeyance. Sestion is required if the drawing(s) is ob | e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d). | | |
| Priority under 35 U.S.C. § 119 | | | | |
| 12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/12/2006 | 4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other: | ate | | |



DETAILED ACTION

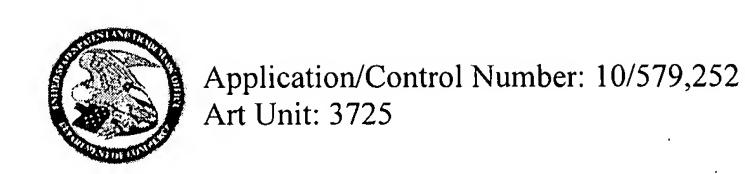
Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21 and 31-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Zampini (US Patent # 5,647,243). Zampini disclose a machine for the working of sheet metal parts (1, 2), comprising a tool-carrying unit (7, 11), a work piece carrying structure, a supporting structure (8), a movable unit (4) which carries the tool-carrying unit (7, 11) and is slidably mounted on the support structure (8) along a working direction and a first driving system for controlling the movement of the movable unit (4) in the first direction (working direction), the first driving system including a first driving shaft (9), a first motor unit [See col. 4 lines 27-30] for controlling the rotation of the first driving shaft and a mechanism for converting the rotational movement of the first driving shaft (9) into the translational movement of the movable unit (4), wherein the mechanism comprises a first cam member (7e, 7f) driven by the first driving shaft (9) and a first engagement surface (7c, 7d) arranged to co-operate with an outline of the first cam member (7e, 7f) to bring about a first working movement of the movable unit (4), the first engagement surface (7c, 7d) is provided by the work piece carrying structure. It is noted that the first engagement structure (7c, 7d) is provided by the work piece carrying structure through the supporting structure (8) since these two structures are connected to one another and the limitation provided does not define a connection between the members.



In reference to claim 31, Zampini further discloses the mechanism for converting the rotational movement of the first shaft (9) into the translational movement of the movable unit further comprises a second cam member (14e, 14f) driven by the first driving shaft (9) and a third engagement surface (14c, 14d) arranged to co-operate with the second cam member (14e, 14f) to bring about a second working movement of the movable unit (4) [See FIG 5].

In reference to claim 32, the direction of the first working movement of the movable unit (4) is the same as that of the second working movement.

In reference to claim 33, the tool-carrying unit (7, 11) carries a first pre-flanging tool (5) and a second final-flanging tool (10) in such a manner that the machine is adapted to perform a flanging operation in a first pre-flanging phase and in a second final-flanging phase., And the first driving system is configured in such a manner to drive the first working movement of the movable unit (4) to perform the pre-flanging phase and the second working movement of the movable unit to perform the final-flanging phase [See FIGS 8-10].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

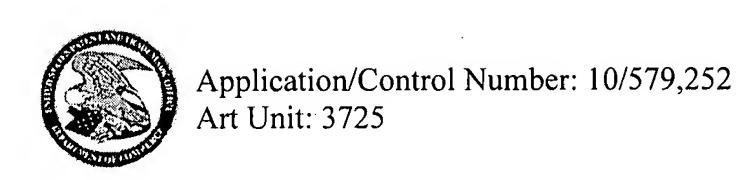
The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:



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Claims 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dorsett (US Patent # 5,050,422) in view of Zampini (US Patent # 5,647,243). Dorsett discloses a machine for the working of sheet metal parts (4) comprising a tool-carrying unit (7), a work piece carrying structure (3) and a supporting structure (1), a movable unit (8, 11) which carries the tool-carrying unit (7) and is slidably mounted on the support structure (1) along a first direction and a first driving system for controlling the movement of the movable unit (8, 11) in the first direction, the first driving system including a mechanism for providing a translational movement of the movable unit (8, 11), wherein the mechanism comprises a first cam member (25) and a first engagement surface (27) arranged to co-operate with an outline of the first cam member (25) to bring about a first working movement of the movable unit (8, 11). It is noted that the first engagement structure (27) is provided by the work piece carrying structure (3) through the supporting structure (1) and movable unit (8, 11) since these structures are connected to one another and the limitation provided does not define a connection between the members. Dorsett discloses the invention substantially as claimed except for wherein the driving system includes a motor and drive shaft. However, Zampini teaches it is known in the hemming art to replace hydraulic driving mechanisms with mechanical driving mechanisms [See col. 1 lines 33-37] in order to reduce the cost and maintenance of the machine. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the hydraulic driving mechanism of Dorsett with a mechanical driving mechanism such as a motor and ball and screw device in order to reduce maintenance and cost.



In reference to claim 22, the first engagement surface (27) is provided on an opposite side of the work piece carrying structure (3) to the one on which the metal part (4) to be worked are arranged [See FIG 1].

In reference to claim 23, the first engagement surface (27) is a cylindrical surface provided by a first roller member rotatably mounted on the work piece carrying structure. It is noted that the roller (27) is rotatably mounted on the work piece carrying structure via arm (29) [See FIG 1].

In reference to claim 24, the cam member (25) is carried by the movable unit (8, 11) as seen in figures 2-4.

Allowable Subject Matter

Claims 25-30, 34 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Debra Wolfe whose telephone number is (571) 272-1904. The examiner can normally be reached Monday - Thursday 7am - 4:30pm with alternating Friday 7am - 3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached at (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Debra M Wolfe Examiner Art Unit 3725

PRIMARY EXAMINET